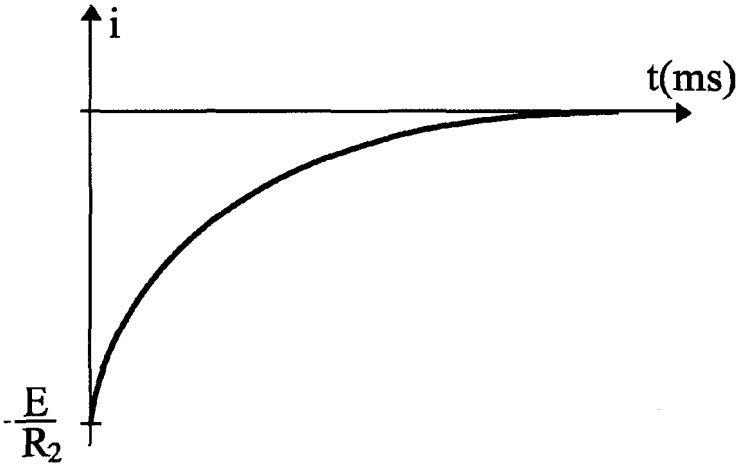
5)



6) I (t) n'est pas une fonction continue du temps.

III.

1)

2) $u_C = \frac{q}{C} = \frac{It_1}{C} \Rightarrow t_1 = \frac{C.u_C}{I}$; $AN\ t_1 = \frac{2.10^{-6} \times 10}{10^{-3}} = 210^{-2} s$

3) $E_e = \frac{1}{2C} q^2 = \frac{1}{2C} I^2 t_2^2 \Rightarrow t_2 \sqrt{\frac{2CE_e}{I^2}}$

$$AN\ t_2 = \sqrt{\frac{2 \times 2.10^{-6} \times 10^{-3}}{(10^{-3})^2}} = 6,32.10^{-2} s$$

Qarray.tn -Aqra Blech- Qarray.tn